BOSSCODER ACADEMY

FULL-STACK DEVELOPMENT

INTERVIEW QUESTIONS

with Answers to Crack

TECHNICAL INTERVIEW

Disclaimer

Everyone learns uniquely.

Full-Stack Development in a structured manner and master it by practically applying your skills.

This Doc will help you with the same.

#1

General Programming Concepts

1. What is the difference between `==` and `===` in JavaScript?
2. Explain the concept of closures in JavaScript.
3. What are promises in JavaScript and how do they work?
4. What is event delegation in JavaScript?
5. Can you explain the concept of prototypal inheritance in JavaScript?
6. What do you mean by dependency injection?
7. What is multithreading and how is it used in modern web development?
8. Explain Inversion of Control (IoC).

#2

Front-End Development

1. What is the Virtual DOM and how does it work in frameworks like React?
2. Explain the difference between React hooks and class-based components.
3. How does CSS Flexbox work?
4. What is the difference between `inline`, `inline-block`, and `block` elements in HTML/CSS?
5. How do you manage state in a React application?
6. What are some of the key differences between Angular and React?
7. Explain the box model in CSS.
8. What are media queries and how do you use them in responsive web design?
9. What are Single Page Applications (SPA) and how do they work?
10. What is event delegation in JavaScript and why is it useful?

#3

Back-End Development

1. What are RESTful APIs and how do they work?
2. What is the difference between SQL and NoSQL databases?
3. Explain the MVC (Model-View-Controller) architecture.
4. What are microservices and how do they differ from monolithic architectures?
5. How do you handle authentication and authorization in web applications?
6. What is CORS and how do you handle it?
7. Explain the concept of middleware in web frameworks like Express.js.
8. How do you secure a web application?

#4

Databases

1. What is normalization in databases?
2. Explain the differences between different types of joins in SQL.
3. What are indexes in databases and how do they work?
4. How do transactions work in databases?
5. What is a NoSQL database and when would you use it?

#5

DevOps and Deployment

1. What is continuous integration and continuous deployment (CI/CD)?
2. How do Docker and containerization work?
3. What is Kubernetes and how does it help in managing containerized applications?
4. Explain the concept of Infrastructure as Code (IaC).
5. How do you monitor the performance and health of a web application?

#6

Miscellaneous

1. What is a web socket and how does it differ from HTTP?
2. Explain the concept of Progressive Web Apps (PWA).
3. What are the SOLID principles in software development?
4. How do you handle error logging and debugging in a full-stack application?
5. What is GraphQL and how does it differ from REST?
6. What is long polling and how does it compare to short polling?
7. How would you reduce the load time and improve a website's performance?

#7

Practical Coding Questions

Here are some practical coding problems you can practice on LeetCode:

1. Two Sum

Given an array of integers, return indices of the two numbers such that they add up to a specific target.

Practice Here →

2. Two Sum

Given an array of integers, return indices of the two numbers such that they add up to a specific target.

Practice Here →

3. Longest Substring Without Repeating Characters

Given a string, find the length of the longest substring without repeating characters.

Practice Here →

4. Median of Two Sorted Arrays

Given two sorted arrays, find the median of the two sorted arrays.

Practice Here →

5. Valid Parentheses

Given a string containing just the characters '(', ')', '{', '}', '[' and ']', determine if the input string is valid.

Practice Here →

6. Merge Two Sorted Lists

Merge two sorted linked lists and return it as a new sorted list.

Practice Here →

7. Best Time to Buy and Sell Stock

Given an array, find the maximum profit you can achieve by buying and selling a single stock.

Practice Here →

8. Binary Tree Inorder Traversal

Given a binary tree, return the in-order traversal of its nodes' values.

Practice Here →

9. Maximum Subarray

Find the contiguous subarray with the largest sum.

Practice Here →

10. Climbing Stairs

Given a number of stairs, each time you can climb 1 or 2 steps, find the number of distinct ways to reach the top.

Practice Here →

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WHY BOSSCODER?

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The syllabus is most **up-to-date** and the list of problems provided covers **all important topics.**

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